

NEW NAMES AND COMBINATIONS IN MEXICAN *ALLOISPERMUM*
(ASTERACEAE: HELIANTHEAE)

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ABSTRACT

Six new specific combinations and two new varietal combinations for the genus *Alloispermum* are proposed, as follows: *A. gonzalezae* (B. Turner) B. Turner, *A. longiradiatum* (Urbatsch & B. Turner) B. Turner, *A. michoacanum* (B.L. Robins.) B. Turner, *A. michoacanum* var. *liebmannii* (Schultz-Bip. ex Klatt) B. Turner, *A. palmeri* (S. Wats. ex A. Gray) Fernandez & Urbatsch, *A. palmeri* var. *lanceifolium* (Urbatsch & B. Turner) Fernandez & Urbatsch and *A. tridacoides* (Urbatsch & B. Turner) Fernandez & Urbatsch. All of these are transfers from the genus *Sabazia*.

KEY WORDS: *Alloispermum*, Asteraceae, Heliantheae, systematics, México.

As treated by Fernandez & Urbatsch (in manuscript), *Alloispermum* is a genus of perhaps 14 species, mostly confined to montane habitats of México, Central America and northern South America. It is very closely related to *Sabazia* and may ultimately encompass that taxon. The two are kept apart largely on features of habit and capitulescence, *Alloispermum* having rather simple stems that arise from short, stout, subterranean rhizomes and a capitulescence that arises from primary peduncles that branch near the summit forming cymes of 3 to numerous heads. Species of *Sabazia*, as treated by the present author, have annual taproots or, when perennial, aerial stems arise from slender, wiry, rhizomes, the lower stems often decumbent and rooting at the nodes; in addition, the heads are usually solitary on elongate terminal or axillary peduncles.

Urbatsch & Turner (1975) placed several of the species included here in the genus *Sabazia*, having removed these from *Calea* where they were anomalous. Robinson (1978) subsequently resurrected the older generic name, *Alloispermum*, to house these and we accept the reality that they are properly positioned there. McVaugh (1984), in his usual conservative vein, retained most of the aforementioned anomalies in his heterogeneous *Calea*, but also maintained

Sabazia (by insertion of the latter within *Calea*, he creates a phyletically indefensible position). In any case, I intend to retain *Calea*, *Sabazia* and *Alloispermum* in my treatment of the tribe Heliantheae for México, believing these to be separate, closely related phyletic lines. Additional work will be needed to resolve the relationship of the latter two genera with the closely related genera *Galinsoga* and *Schistocarpha*, as noted by Fernandez & Urbatsch.

Alloispermum gonzalezae (B. Turner) B. Turner, *comb. nov.* BASIONYM: *Sabazia gonzalezae* B. Turner, *Phytologia* 63:307. 1987.

As noted in my original description, inclusion of this taxon in *Sabazia* was provisional. A review of the entire *Alloispermum-Sabazia-Galinsoga* complex now leads me to believe that it is properly positioned in *Alloispermum*, near *A. tridacoides*.

Alloispermum longiradiatum (Urbatsch & B. Turner) B. Turner, *comb. nov.* BASIONYM: *Sabazia longiradiata* Urbatsch & B. Turner, *Brittonia* 27:353. 1975.

This species is superficially similar to *A. palmeri* but differs in its shorter stature, fewer leaves along the stems and much longer rays. On habit features and its branched capitulescence it belongs to *Alloispermum*.

Alloispermum michoacanum (B.L. Robins.) B. Turner, *comb. nov.* BASIONYM: *Sabazia michoacana* B.L. Robins., *Proc. Amer. Acad. Arts* 27:173. 1892.

Two varieties are recognized under this species, as follows:

1. Peduncular hairs with purple crosswalls; leaves mostly widest at or near the base var. *liebmannii*
- 1' Peduncular hairs without purple crosswalls; leaves widest at or near the middle; Michoacán var. *michoacanum*

Alloispermum michoacanum var. *michoacanum*. *Sabazia michoacana* B.L. Robins., *Proc. Amer. Acad. Arts* 27:173. 1892. *Sabazia liebmannii* var. *michoacana* (B.L. Robins.) Longpre.

Known only from Michoacán in pine-oak forests, 2000-3100 m.

Alloispermum michoacanum var. *liebmannii* (Schultz-Bip. ex Klatt) B. Turner, *comb. nov.* BASIONYM: *Sabazia liebmannii* Schultz-Bip. ex Klatt, *Leopoldina* 23:90. 1887. Not *Alloispermum liebmannii* (Schultz-Bip. ex Klatt) H. Robins., *Phytologia* 38:412. 1978, which is based upon *Calea liebmannii* Schultz-Bip. ex Klatt, *Leopoldina* 23:145. 1887. *Sabazia liebmannii* Schultz-Bip. ex Klatt var. *liebmannii*.

Sabazia liebmannii var. *hintonii* Longpre.

Sabazia liebmannii var. *ovatifolia* Longpre.

México State, Guerrero and Oaxaca in pine-oak woodlands, 2000-2900 m.

A variable taxon but readily distinguished from var. *michoacanum* by the characters given in the above couplet.

Alloispermum palmeri (S. Wats. ex A. Gray) Fernandez & Urbatsch, *comb. nov.* BASIONYM: *Calea palmeri* S. Wats. ex A. Gray, Proc. Amer. Acad. Arts 22:430. 1887.

Alloispermum palmeri var. *lancifolium* (Urbatsch & B. Turner) Fernandez & Urbatsch, *comb. nov.* BASIONYM: *Sabazia palmeri* var. *lancifolia* Urbatsch & B. Turner, Brittonia 27:353. 1975.

Alloispermum tridacoides (Urbatsch & B. Turner) Fernandez & Urbatsch, *comb. nov.* BASIONYM: *Sabazia tridacoides* Urbatsch & B. Turner, Brittonia 74:351. 1975.

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